



| | | |
|--|-----------------------------------|-----------------------|
| INFORMATION DISCLOSURE CITATION IN AN APPLICATION | Att'y Ref: Y03-100US | Serial No: 10/781,305 |
| | Applicant: CHENG, Yung-chi et al. | |
| | Filing Date: Feb. 18, 2004 | Art Unit: 1614 |

| United States Patent Documents | | | | | | |
|--------------------------------|-----------------|---------|--------------|-------|----------|-------------|
| Examiner Initial | Document Number | Date | Name | Class | Subclass | Filing Date |
| | 5,739,396 | 04-1998 | Trost et al. | _____ | _____ | |
| | | | | | | |
| | | | | | | |

| Foreign Patent Documents | | | | | | | |
|--------------------------|--------------------|------------------|---------|-------------|----------|-------------|----|
| Examiner Initial | Publication Number | Publication Date | Country | Class | Subclass | Translation | |
| | | | | | | Yes | No |
| | WO 2002/100415 | 12-2002 | WIPO | <div></div> | | | |
| | WO 2002/069876 | 09-2002 | WIPO | <div></div> | | | |
| | JP-11-349596 | 12-1999 | JAPAN | <div></div> | | | |
| | JP-06-080688 | 03-1994 | JAPAN | <div></div> | | | |
| | JP-05230058 | 09-1993 | JAPAN | <div></div> | | | |
| | | | | | | | |
| | | | | | | | |

| | |
|--|------------------|
| Examiner: | Date Considered: |
| <small>EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered; Include a copy of this form with next communication to the applicant.</small> | |

| Examiner Initial | Other Documents (by Title, Author Date, Pertinent Pages, Etc.) |
|------------------|--|
| | KATO KEISUKE et al.: "Enantio- and diastereoselective synthesis of 4'-alpha-substituted carbocyclic nucleosides". Tetrahedron: Asymmetry, 9(6), 911-914, 1998. |
| | KATO KEISUKE et al.: "Stereoselective synthesis of 4'-alpha-alkylcarbovir derivatives based on an asymmetric synthesis or chemo-enzymatic procedure", Chemical & Pharmaceutical Bulletin, 1999, 47(9), 1256-1264. |
| | WAGA TOSHIAKE et al.: "Synthesis and biological evaluation of 4'-C-methyl nucleosides" Nucleosides & Nucleotides 1996, 15(1-3), 287-304. |
| | HARAGUCHI KAZUHIRO et al.: "Allylic Substitution of 3',4'-Unsaturated Nucleosides: Organosilicon-Based Stereoselective Access to 4'-C-Branched 2',3',-Didehydro-2',3'-dideoxyribonucleosides", Journal of Organic Chemistry 1996, 61(3), 851-8. |
| | CAPPELLACCI LOREDANA et al. "Ribose-Modified Nucleosides as Ligands for Adenosine Receptors: Synthesis, Conformational Analysis, and Biological Evaluation of 1'-C-Methyl Adenosine Analogues", Journal of Medicinal Chemistry 2002, 45(6), 1195-1202. |
| | KODAMA EI-ICHI et al. "4'-Ethynyl nucleoside analogs: potent inhibitors of multidrug-resistant human immunodeficiency virus variants in vitro", Antimicrobial Agents and Chemotherapy, 2001, 45(5), 1539-1546. |
| | DE ZWART MAARTEN et al.: "A functional screening of adenosine analogs at the adenosine A2B receptor: a search for potent agonists" Nucleosides & Nucleotides 19, 17(6), 969-985, 1998. |
| | YAMAGUCHI TOYOFUMI et al. "Antileukemic activities and mechanism of action of 2'-deoxy-4'-methylcytidine and related nucleosides". Nucleosides & Nucleotides, 1997, 16(7-9), 1347-1350. |
| | HAI TON T. et al.: "Species- or isozyme-specific enzyme inhibitors. 9, Selective effects in inhibitions of rat pyruvate kinase isozymes by adenosine 5'-diphosphate |

Examiner:

Date Considered:

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered; Include a copy of this form with next communication to the applicant.

| | |
|---------|---|
| | derivatives", Journal of Medicinal Chemistry 1982, 25(10), 1184-8. |
| | HAI TON T. et al.: "Species-or isozyme-specific enzyme inhibitors 7. Selective effects in inhibitions of rat adenylate kinase isozymes by adenosine 5'-phosphate derivatives", Journal of Medicinal Chemistry 1982, 25(7), 806-12. |
| | E. L. VODOVOZOV A et al. "New phospholipids-inhibitors of HIV reproduction. Synthesis and anti-viral activity", Bioorganic chemistry, 1996, 22(6), 451-457. |
| | BEREZOVSKAYA YU. V. et al.: "Creating novel molecular transport systems: the synthesis and antiviral activity of mixed succinates of deoxynucleotides and hydrophobic molecules", Pharmaceutical Chemistry Journal 35(3), 134-138, 2001. |
| | SEJINO KEIKO et al.: "Facile synthesis of 2',3'-unsaturated nucleosides from 2-deoxyribose", Tetrahedron Letters, 37(34), 6133-6136, 1996. |
| | PALOMINO EDUARDO et al.: "A dihydropyridine carrier system for sustained delivery of 2',3'-dideoxynucleosides to the brain" Journal of Medicinal Chemistry, 1989, 32(3), 622-5. |
| | CRAMER JANINA et al.: "Exploring the Effects of Active Site Constraints on HIV-1 Reverse Transcriptase DNA Polymerase Fidelity" Journal of Biological Chemistry 2002, 277 (46). 43593-43598. |
| | ESTRADA ERNESTO et al.: "In Silico Studies toward the Discovery of New Anti-HIV Nucleoside Compounds with the Use of TOPS-MODE and the 2D/3D Connectivity Indices. 1. Pyrimidyl Derivatives" .Journal of Chemical Information and Computer Sciences 2002, 42(5), 1194-1203. |
| | MATSUDA AKIRA: "Development of novel radical cyclization-ring expansion reaction and its pharmacological development". Farumashia 2002, 38(4), 293-295. |
| no date | SUMMERER DANIEL et al.: "DNA polymerase selectivity: sugar interactions monitored with high-fidelity nucleosides", Angewandte Chemie, International Edition , 40 (19), 3693-3695. |
| | KOHGO SATORU et al. "Synthesis of the L-enantiomer of 4'-C-ethynyl-2'-deoxycytidine". Bioscience, Biotechnology and Biochemistry 2001, 65(8), 1879-1882. |
| | KOHGO SATORU et al.: "Development of Nucleosides highly potent against multidrug resistant HIV", Tennen Yuki Kagobutsu Toronkai Koen Yoshishu, 2000, 42 nd , 835-840. |
| | RIEHOKAINEN ELENA et al.: "Stereoselective synthesis of 3'-fluoro- and 3'-azido-4'-methyl-2',3'-D-glycero-pentofuranoside-5-fluorouracils" Tetrahedron, 54(34), 10161-10166, 1998. |

Examiner:

Date Considered:

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered; Include a copy of this form with next communication to the applicant.

Page 4 of 1

| | |
|--|---|
| | OHRUI HIROSHI et al.: "Syntheses of 4'-C-Ethynyl-p-D-arabino- and 4'-C-Ethynyl-2'-deoxy-p-D-ribo-pentofuranosylpyrimidines and -purines and Evaluation of their Anti-HIV Activity", Journal of Medicinal Chemistry 2000, 43(23), 4516-4525. |
| | KOHGO SATORU et al. "Synthesis of 4'-C-ethynyl-p-D-Arabino- and 4'-C-ethynyl-2'-deoxy-beta-D-ribo-pentofuranosyl pyrimidines, and their biological evaluation", Bioscience, Biotechnology, and Biochemistry, 62(6), 1146-1149., 1999. |
| | NOMURA MAKOTO et al.: "Nucleosides and Nucleotides. 185. Synthesis and Biological Activities of 4'-a-C-Branched-Chain Sugar Pyrimidine Nucleosides", Journal of Medicinal Chemistry 1999, 42(15), 2901-2908. |
| | KITANO KENJI et al.: "Synthesis of novel 4'-C-methyl-pyrimidine nucleosides and their biological activities", Bioorganic & Medicinal Chemistry Letters, 9(6), 827-830, 1999. |
| | SUGIMOTO ISAMU et al.: "Nucleosides and nucleotides. 183. Synthesis of 4' alpha-branched thymidines as a new type of antiviral agent", Bioorganic & Medicinal Chemistry Letters, 1999, 9(3). 385-388. |
| | |
| | |
| | |

| | |
|---|-----------------------------|
| Examiner: /Traviss McIntosh III/ (03/29/2008) | Date Considered: 03/29/2008 |
| EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered; Include a copy of this form with next communication to the applicant. | |